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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NUMBER YOM-0098 SERIAL NUMBER 10/502,185 FILED 7-21-2004
FIRST INVENTOR: Sung-Cheol YOON TITLE METHOD FOR POLYMERIZING
CYCLOOLEFIN POLYMER CONTAINING POLAR FUNCTIONAL GROUPS AND
ELECTRONIC EXAMINER William K. CHEUNG ART UNIT 1713

1. ☒ Applicant submits herewith a copy of (a) attached form PTO-1449, which lists all patents, publications, applications, or other information submitted for consideration by the Office; (b) a legible copy of each document required by 37 C.F.R. §1.98(b)(2).
2. ☐ Applicant herein apprises the Patent Office of references cited in a parent U.S. application from which this application obtains the benefit of an earlier filing date under 35 U.S.C. §120. The Serial Number of the parent application is U.S. Application _____ filed _____ and entitled _____.
The publications cited therein are listed on attached Form PTO-1449. In accordance with 37 C.F.R. §1.98(d) copies of the listed publications are not required. ☐ Additional parent patent applications are listed on an attached sheet.
3. ☒ In accordance with 37 C.F.R. §1.98(a)(3), Applicant hereby certifies that for each reference not in English (check at least one box below):
☐ A copy of a translation of one or more non-English document, or portion thereof, is provided herewith;
☐ A concise explanation is (check at least one box below):
☒ provided in the accompanying foreign or international search report; ☐ incorporated into the specification; and/or ☒ provided herewith.

37 C.F.R. §1.97(b)(1), (b)(2) – WITHIN 3 MONTHS OF FILING OR ENTRY IN NATIONAL STAGE

4. ☐ Since this Information Disclosure Statement is being filed within three months of the filing date of the subject application or within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application, no fee or certification under 37 C.F.R. §1.97(e) is required.

37 C.F.R. §1.97(b)(3), (b)(4) – PRIOR TO MAILING OF FIRST OFFICE ACTION OR FIRST ACTION AFTER REQUEST FOR CONTINUED EXAMINATION

5. ☐ Since this Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. §1.114, no fee or certification under 37 C.F.R. §1.97(e) is required.

37 C.F.R. §1.97(c) – AFTER FIRST ACTION, BEFORE FINAL ACTION OR ALLOWANCE

6. ☒ Since this Information Disclosure Statement is being filed outside of the period provided for in 37 C.F.R. §1.97(b), but before the mailing date of a Final Rejection or Notice of Allowance, this submission is being accompanied by (one of the following boxes must be checked):
 - a. ☒ the fee required under 37 C.F.R. §1.97(c)(2) and specified in 37 C.F.R. §1.17(p).
 - b. ☐ the statement specified in 37 C.F.R. §1.97(e) (Box 8 or 9 must be checked).

37 C.F.R. §1.97(d) – AFTER FINAL REJECTION OR ALLOWANCE

7. ☐ Since this Information Disclosure Statement is being filed after the period specified in 37 C.F.R. §1.97(c), but on or before payment of the issue fee and is accompanied by both the statement specified in 37 C.F.R. §1.97(e) and the fee set forth in 37 C.F.R. §1.17(p). (Box 8 or 9 must be checked.)
8. ☐ In accordance with 37 C.F.R. §1.97(e)(1), Applicant's attorney certifies that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. ☐ The foreign or international search report(s) is/are enclosed.
9. ☐ In accordance with 37 C.F.R. §1.97(e)(2), Applicant's attorney certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of the information disclosure statement.
10. ☒ In the event the Commissioner of Patents deems that any additional fee is required under 37 C.F.R. §§ 1.16 or 1.17 in connection with this application, Applicant's attorneys authorize that such fee be charged to Deposit Account No. 06-1130.
11. Consideration of this Information Disclosure Statement is respectfully requested.

Name:	<u>Soonja Bae</u>	Limited Recognition No.	<u>L0017</u>
Signature		Date	<u>February 1, 2006</u>
CERTIFICATE OF MAILING OR TRANSMISSION: I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or [] facsimile transmitted to the U.S. Patent and Trademark Office to Facsimile No. _____ on the date shown below.			
Name	<u>Shenita Carroll</u>		
Signature		Date	<u>February 1, 2006</u>

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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) YOM-0098		Application Number 10/502,185	
				Applicant(s) Sung-Cheol YOON, et al.			
				Filing Date July 21, 2004		Group Art Unit 2872	

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 PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,011,730	4-30-1991	Tenney, et al.	428	209	
		3,330,815	7-11-1967	McKeon, et al.	260	93.1	
		5,179,171	1-12-1993	Minami, et al.	525	288	
		5,705,503	1-6-1998	Goodall, et al.	526	281	
		5,516,456	5-14-1996	Shinohara, et al.	252	299.01	

U.S. PATENT APPLICATION PUBLICATIONS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
		109,224	7-10-1973	GERMANY				
		WO 02/088783 A1	11-7-2002	PCT				
		WO 02/088784 A2	11-7-2002	PCT				

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
		"Polymerization of Cyclic Olefins with Homogeneous Catalysts"; Authors: W. Kaminsky, A. Bark, and I. Dake: Supplied by The British Library- The world's knowledge"; Pages 425 to 438 (1990)
		"Poly-2,3- and 2,7-Bicyclo[2.2.1] hept-2-enes: Preparation and Structures of Polynorbornenes"; Authors: Norman G. Gaylord, Achyut B. Deshpande, Broja M. Mandal, and Micheal Martan; J. MACROMOL. SCI.-CHEM., A11(5), pp. 1053-1070 (1977)

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. YOM-0098		APPLICATION NO. 10/502,185		
				APPLICANT(S) Sung-Cheol YOON, et al.				
				FILING DATE July 21, 2004		GROUP ART UNIT 1713		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		4,831,172	5-16-1989	Hahn, et al.	556	419		
		6,455,650 B1	9-24-2002	Lipian, et al.	526	171		
U.S. PATENT APPLICATION PUBLICATIONS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
			"Homogeneous and heterogeneous metallocene/MAO-catalyzed polymerization of functionalized olefins"; Authors: Ralf Goretzki and Gerhard Fink; Macromol. Chem. Phys. 200, No.4; Pages 881-886 (1999)					
			"Transition-metal-catalyzed vinyl addition polymerization of norbornene derivatives with ester groups"; Authors: Stefan Breunig and Wilhelm Risse; Makromol. Chem. 193, Pages 2915- 2927 (1992)					
EXAMINER				DATE CONSIDERED				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

YOM-0098

Application Number

10/502,185

Applicant(s)

Sung-Cheol YOON, et al.

Filing Date

July 21, 2004

Group Art Unit

2872

*EXAMINER

INITIAL

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

"Novel, Efficient, Palladium-Based System for the Polymerization of Norbornene Derivatives: Scope and Mechanism";
Authors: April D. Hennis, et al.; Organometallics, Vol. 20, No. 13, 2001, Pages 2802- 2812

"Communications to the Editor"; J. Am. Chem. Soc. 1981, Vol. 103, Pages 4627-4629

" (n3- Allyl) palladium (II) and Palladium (II) Nitrile Catalysts for the Addition Polymerization of Norbornene Derivatives
with Functional Groups; Authors: Joice P. Matthew, Annette Reinmuth, Jennifer Melia, Noeleen Swords, and Wilhelm Risse;
Macromolecules, Vol. 29, No. 8, 1996, Pages 2755- 2763

PCT International Search Report; International Application No. PCT/KR03/02634; International filing date December 3,
2003,; Date of mailing March 24, 2004

EXAMINER

DATE CONSIDERED

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.